Index of Claims

| Application/Control No. | Applicant(s)/I<br>Reexamination |            |
|-------------------------|---------------------------------|------------|
| 10/775,290              | LIU et al.                      |            |
| Examiner                | Art Unit                        |            |
| Lee,Calvin              | 2818                            | TSM03-0649 |

| / | Rejected | 1 | (Through numeral)<br>Cancelled |
|---|----------|---|--------------------------------|
|   | Allowed  | + | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| 1 | Interference |

| A | Appeal   |
|---|----------|
| 0 | Objected |

| Cla      | Claim Date |  |                   |                   |          |  |   | Cla      | Claim Date |        |          |              |             |  |  |  |          |          |          | CI                  | aim_     | Date     |     |          |            |  |          |              |  |          |          |                 |                |             |
|----------|------------|--|-------------------|-------------------|----------|--|---|----------|------------|--------|----------|--------------|-------------|--|--|--|----------|----------|----------|---------------------|----------|----------|-----|----------|------------|--|----------|--------------|--|----------|----------|-----------------|----------------|-------------|
|          |            |  | <u>ار</u>         | Τ,,               | T.       | Τ  |   | Τ        | Τ          |        |          |              |             | 5  | ٦  | 9  | Ī.,      | Π        | П        | П                   | T        |          |     |          | <u>=</u>   |  |          |              |  |          |          |                 |                |             |
| Final    | Original   | 7/20/05  | 9/20/02           | 4/18/06           | 6/1/06   | 3  |   |          | ļ          |        |          | Final        | Original    | 7/20/05  | 9/20/05  | 4/18/06  | 6/1/06   | l        |          |                     |          |          |     | Final    | Original   |  |          |              |  |          | ı        |                 |                | ĺ           |
| i.       | o<br>Š     | 12   | 26                | 12                | à        | 3  |   |          |            | 1      |          | ΙŒ           | Ö           | 12   | 2  | 4/1  | ò        |          |          |                     |          |          |     | 证        | ő          |  | П        |              |  |          |          | 1               |                | ĺ           |
|          | 1          |  | ļ. <del>.</del>   | ļ.,               | 1.       | +  | -   | +        | ╀          | ╄-     | ł        |              | <b>(51)</b> |  | ļ.,  | <u></u>  | l        | <u> </u> | Н        | $\dashv$            | -        | _{       |     |          |            |  | H        |              |  | $\dashv$ |          | _               | $\dashv$       |             |
|          | Ö          | %  | 丫                 | %                 | 1        | +  | ╬   | ╫        | +          |        | ┨        | -            | 52          | %  | Ņ  | %  | N        | ┢        | H        | $\dashv$            | -+       | -        |     |          | 101<br>102 |  | H        |              | Н  | $\dashv$ |          | -               | $\dashv$       | <u> </u>    |
|          | 3          | ₩  | ₩                 | H                 | Н        | +  | +-  | ╫        | +          | -      |          | <u> </u>     | 53          | H  | Н  | H  | ₩        | ⊢        | Н        | $\dashv$            | +        | $\dashv$ |     |          | 103        | -  | Н        |              | Н  | $\vdash$ | ᅱ        | $\dashv$        | $\dashv$       | $\vdash$    |
| -        | 4          | ₩  | ╫                 | Н                 | Н        | +  | ╁   | ╁        | +          | ╁┈     | l        | $\vdash$     | 54          | H  | ╫  | H  | ╫        | ┢        | Н        | $\dashv$            | 十        |          |     |          | 104        |  | Н        |              |  | Н        | ᅱ        |                 | -              | $\vdash$    |
| <b>—</b> | 5          | H  | Ħ                 | H                 | H        | +  | +   | ╈        | +          | ╁╌     |          |              | 55          | Н  | Ħ  | H  | Ħ        | t        | -        | $\forall$           | 十        | -        |     |          | 105        |  | Н        |              |  | $\dashv$ | 一        | $\neg$          | ᅦ              |             |
|          | (6)        | H  | Ħ                 | Ħ                 | Ħ        | T  | $\top$  | 1        | T          | 1      | 1        |              | 56          | Н  | Ħ  | IT   | Ħ        | $I^-$    |          |                     | 十        | _        |     |          | 106        |  |          |              |  | П        | ヿ        |                 | $\neg$         |             |
|          | 7          | П  | Ħ                 | $\Pi$             | T        | T  | 1   | 十        | T          |        |          |              | 57          | П  | $\Pi$  | П  | Ħ        |          |          | $\Box$              | 7        |          |     |          | 107        |  |          |              |  |          |          |                 |                |             |
|          | 8          | П  | П                 | П                 | П        | T  |   | T        |            |        |          |              | 58          | П  | П  | $\prod$  | Π        |          |          |                     |          |          |     |          | 108        |  |          |              |  |          |          |                 |                |             |
|          | 9          | П  | П                 | П                 |          |  | $oldsymbol{ol}}}}}}}}}}}}}}}$ |          | I          |        | ]        |              | 59          | П  | Ш  | Ц  | Ш        |          |          |                     |          |          |     |          | 109        | 匚  | Ш        |              |  | Ц        | _        |                 |                | <u></u>     |
|          | 10         | Ш  | ₩                 | П                 | $\Gamma$ |  |   |          |            |        | ]        |              | 60          | %  | Ń  | ₹,   | N        | L        | Ш        |                     | $\perp$  | _        |     |          | 110        | Ш  | Ш        |              |  |          | _        |                 |                | <u> </u>    |
|          | (E)        | Щ  | N                 | Ц                 | 1        | 1  |   | ┸        |            |        |          | <u></u>      | 61          |  |  | ╙  | <u> </u> | <u> </u> | Ш        |                     | $\perp$  | _        |     |          | 111        | L.   | Ш        |              | Ш  | Щ        |          | _               | _              | <u> </u>    |
| <u> </u> | 12         | $\!$ | $\coprod$         | Ш                 | $\perp$  | Щ  | 4   | 4_       | 4          | 4      |          | ļ            | 62          | L  | $\vdash$   | $ldsymbol{f eta}$                                | 1        | <b>!</b> | Ш        | $\sqcup \downarrow$ | $\bot$   | 4        |     |          | 112        | <u> </u>   |          | _            | Щ  | Ш        |          |                 | 4              | <u>—</u>    |
| <u> </u> | 13         | #  | $\coprod$         | $\coprod$         | $\bot$   | $\!$ | $\bot$  | 4-       | 4          | $\bot$ | 1        | <u> </u>     | 63          | $\vdash$   | ⊢  | $\vdash$   | <u> </u> | <b> </b> | Ш        | $\vdash \vdash$     | -        | 4        |     |          | 113        | $\vdash$   | H        |              | Ш  | Ш        |          |                 | $\dashv$       | <b>—</b>    |
| <u> </u> | 14         | #  | ₩                 | H                 | +        | $\!$ | +   | -        | 4-         | +      | 1        | <u> </u>     | 64          | $\vdash$   | $\vdash$   | L  | $\vdash$ | $\vdash$ | <u> </u> | $\vdash \vdash$     | +        | 4        |     |          | 114        | <del> </del> —                                   | $\vdash$ | <u> </u>     | -  | $\vdash$ | $\vdash$ | $\dashv$        |                | <u> </u>    |
| -        | 15<br>16   | ╫  | ₩                 | ₩                 | +        | ${\mathbb H}$  | +   | +        | +          | ╁      | 1        | <del> </del> | 65<br>66    | $\vdash$   | ⊢  | ⊢  | $\vdash$ | -        | -        | ┝╼┼                 | $\dashv$ | $\dashv$ |     | ļ        | 115<br>116 | -  |          | <u> </u>     | $\vdash$   | $\vdash$ | $\dashv$ | $\dashv$        | $\dashv$       | $\vdash$    |
| -        | 17         | H  | H                 | H                 | ╀        | H  | +   | +        | ╁          | ╫      | ł        | ┝            | 67          | ╌  | -  | ┢  | ╁        | ⊢        | -        |                     | $\dashv$ | ⊣        |     | ···-     | 117        | $\vdash$   | -        | _            | $\vdash$   |          |          |                 | -              | <del></del> |
|          | 18         | H  | ₩                 | H                 | +        | H  | +   | +        | +          |        |          |              | 68          | ┢  | -  | ┢┈   | ┢        | ┢        | H        | $\dashv$            | ╅        | ┨        |     |          | 118        | $\vdash$   | $\vdash$ | <del> </del> | $\vdash$   |          |          | $\dashv$        | -              | $\vdash$    |
|          | 19         | H  | H                 | ╫                 | +        | H  | +   | ╁        | ╁          | ╁      | ł        | <del> </del> | 69          | ╂─   | ╁  | ┢  | ┢        | ╁        | Н        | $\dashv$            | +        | ⊣        |     |          | 119        | ┢  |          |              | $\vdash$   | -        |          | $\dashv$        |                | $\vdash$    |
| <u> </u> | 20         | H  | H                 | H                 | ╁        | ╫  | +   | +        | +          | +      |          |              | 70          | H  | ┢  | ├  | ╁╌       | t        | H        | $\dashv$            | 十        | 一        |     |          | 120        |  |          | -            | ┢  | Н        |          | $\dashv$        | -              |             |
|          | 0          | H  | ⅳ                 | $\dagger\dagger$  | ╁        |  | ╅   | ╅        | +          | +-     |          |              | 71          | 一  | <del>                                     </del> | <del>                                     </del> | t        | t        | H        | T                   | $\dashv$ | 一        |     |          | 121        | $\vdash$   | Н        |              | $\vdash$   | П        | $\neg$   |                 |                | 厂           |
| $\vdash$ | 22         | Ħ  | Ħ                 | Ħ                 | Ť        | IT   | 十   | 1        | ╅          | 1      | 1        |              | 72          | t  | t  | ┢  | 1        | T        | Т        |                     | $\top$   | ┪        |     |          | 122        | <u> </u>   |          |              |  | П        |          |                 |                |             |
| $\vdash$ | 23         | Ħ  | Ħ                 | 11                | t        | IT   | T   | ✝        | $\top$     | 1      |          |              | 73          | $\vdash$   |  | Т  | T        | T        | _        |                     | ╅        | ┪        |     |          | 123        |  |          |              |  |          |          |                 |                |             |
| $\vdash$ | 24         | Ħ  | 11                | Ħ                 | T        | IT   | $\top$  | 1        | 1          | 1      |          |              | 74          | T  | Г  | Г  | T        | T        | П        | T                   | 十        | ヿ        |     |          | 124        |  |          |              |  |          |          |                 |                |             |
|          | 25         | Π  | П                 | П                 | T        | П  |   |          | T          | 1      |          |              | 75          | İΤ   | П  |  |          | Г        |          | П                   | T        | $\neg$   |     |          | 125        |  |          |              |  |          |          |                 |                |             |
|          | (26)       | П  | П                 | П                 |          |  |   |          |            |        |          |              | 76          |  |  |  | L        |          |          |                     |          |          |     |          | 126        |  |          |              |  |          |          |                 |                |             |
|          | 27         | Ц  | Ш                 | Ц                 | $\perp$  | Ш  |   |          | ┸          |        |          |              | 77          | L  | 匚  | L  |          | L        | Ш        | Ц                   | _        | _        |     |          | 127        |  |          |              |  |          |          | Ш               |                | <u> </u>    |
| <u></u>  | 28         | Ц  | Ц                 | Ш                 | 1        | Щ  | $\bot$  |          | _          |        | J        |              | 78          | ┖  | L  | L  |          | _        |          | Щ                   | 4        | _        |     |          | 128        | _  |          |              |  | Ш        | $\perp$  |                 |                | ⊢           |
| <u> </u> | 29         | Ц  | Н                 | $\bot \downarrow$ | Ļ        | Щ  | 4   |          | 4          |        |          |              | 79          | ╙  | _  | _  | ┡        | <u> </u> | L.       |                     | 4        | 4        |     |          | 129        | _  | _        |              | <u> </u>   | Щ        | $\dashv$ |                 |                | <b>—</b>    |
|          | 30         | Н  | V                 | 44                | 1        |  |   | -        | +          | 4      | •        |              | 80          | ┡  | ┡  | ┡  | ▙        | ⊢        | _        |                     | 4        | 4        |     |          | 130        | _  | ▙        |              |  | Ш        | $\dashv$ | -               | _              | <b>—</b>    |
| <u> </u> | <u>an</u>  | Н  | Ŋ                 | +                 | 4        | _  |   | +        | +          | +      |          |              | 81          | ⊢  | -  | ┢  | ⊢        | ⊢        | <u> </u> | $\dashv$            | +        |          |     |          | 131        |  | H        | -            | _  | _        | $\dashv$ | $\vdash$        |                | $\vdash$    |
| $\vdash$ | 32<br>33   | Н  | H                 | ₩                 | Н        | ₩  | ╬   | ╁        | ╫          | ╁      | 1        |              | 82<br>83    | ┢  | ┢  |  | ┢        | ┢        |          | -                   | +        | $\dashv$ |     |          | 132<br>133 | ┢  | ⊢        | _            | -  | $\vdash$ | -        |                 | -              | _           |
| -        | 34         | H  | H                 | ╂╂                | Н        | ╁  |   | ╁        | ╫          | +      | 1        |              | 84          | ┢╌   | ╁╌   | ┢  | ┢╌       | ┢        | -        | -                   | $\dashv$ | 一        |     |          | 134        | ┢  | ┢        | _            | ┢╾   | $\vdash$ |          | Н               |                | $\vdash$    |
| $\vdash$ | 35         | H  | H                 | H                 | Н        | +  | +   | +-       | +          | +      | 1        |              | 85          | ╁  | $\vdash$   | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash \vdash$     | 十        | $\dashv$ |     | $\vdash$ | 135        | $\vdash$   | H        | H            | -  | Н        |          | $\vdash$        | $\dashv$       | $\vdash$    |
| -        | 36         | H  | #                 | ╫                 | H        | +  | +   | +        | +          | +      | 1        |              | 86          | <del>                                     </del> | 一  | H  | ┢        | $t^-$    | Н        | $\vdash$            | $\dashv$ | $\dashv$ |     |          | 136        | <del>                                     </del> | H        |              | Ħ  | Н        |          | H               | $\dashv$       |             |
|          | 37         | H  | tt                | Ħ                 | Ħ        | $\dagger$  | +   | $\top$   | 十          | +      | 1        |              | 87          | T  | $t^{-}$  | $\vdash$   | T        | T        | T        | $\vdash$ †          | +        | $\dashv$ |     |          | 137        | 一  | T        | Т            | ऻ  |          |          | $\sqcap$        | $\dashv$       |             |
|          | 38         | H  | $\dagger \dagger$ | $\dagger \dagger$ | H        | $\dagger$  | +   | 十        | +          | 1      | 1        |              | 88          | Т  | T  |  | T        | 1        | П        | $\top$              | 寸        | ┪        |     |          | 138        |  | П        |              | Г  | П        |          | $\Box$          | $\neg$         |             |
|          | 39         | П  | $\parallel$       | П                 | Ħ        | T  | 十   | T        | T          | T      | ]        |              | 89          | Γ  | Γ  |  | Γ        |          |          |                     |          |          |     |          | 139        |  |          |              |  |          |          |                 |                |             |
|          | 40         |  | Ň                 | П                 | Ŀ        | 1  | Ţ   |          |            | Ι      | ]        |              | 90          |  |  |  | L        | L        |          |                     |          |          |     |          | 140        |  |          |              |  |          |          |                 |                |             |
|          | 41         | $\prod$  | ٧                 | П                 | (        | )  | Ι   | Ι        | Ι          |        | ]        |              | 91          |  |  |  |          |          |          |                     | $\Box$   |          |     |          | 141        |  |          |              |  |          |          |                 |                |             |
|          | 42         | Ц  | П                 | П                 | $\perp$  | Ц  | Ţ   |          | T          | L      |          |              | 92          |  | 匚  | Ĺ  | L        | 匚        | Ц        | $\Box$              | $\perp$  | _]       |     |          | 142        |  | Ш        |              |  |          |          | Ш               |                | L           |
| <u></u>  | 43         | Ш  | Ц                 | Ц                 | $\perp$  | Щ  | $\perp$   | $\perp$  | ┸          |        | <b>.</b> |              | 93          | $oxed{oxed}$                                     | L.   | _  | L        | <u> </u> | Ц        | $\sqcup$            | 4        | _        |     |          | 143        |  | Щ        |              | Ш  |          |          |                 | $\blacksquare$ | <u> </u>    |
| <u></u>  | 44         | #  | 11                | #                 | $\perp$  | Щ.   | 4   | <b>.</b> | $\perp$    | +      | 1        |              | 94          | _  | <b> </b>   |  | ⊢        | ╄        | <u> </u> | $\dashv$            | -        | 4        |     |          | 144        | <u> </u>   | <u> </u> | ldash        | <b> </b>   | Щ        |          | Ш               | _              |             |
| <u></u>  | 45         | $oldsymbol{\parallel}$   | $\coprod$         | #                 | 1        | $\!$ | $\bot$  | 4        | +          | +      | <b>.</b> | <u> </u>     | 95          | <u> </u>   | ⊢  | -  | ┡        | ╀        | $\vdash$ | $\vdash \vdash$     | 4        | 4        | ▓   | <b> </b> | 145        | <b> </b>   | ⊢        | <u> </u>     | ⊢  | Ш        |          | $\vdash \vdash$ | $\dashv$       | $\vdash$    |
| <u></u>  | 46         | ₩  | ₩                 | ₩                 | +        | $\!$ |   | - -      | +          | +      | ł        |              | 96          | ⊢  | ⊢  | -  | ⊢        | 1        | H        | $\vdash \downarrow$ | -        | -        |     |          | 146        |  | ⊢        | _            | ┝╌   | Н        |          | $\vdash$        | $\dashv$       | <b>—</b>    |
| <u> </u> | 47         | ₩  | ₩                 | ₩                 | +        | ${\mathbb H}$  | +   | +        | +          | +      | ł        |              | 97          | $\vdash$   | ⊬  | $\vdash$   | ├        | -        | $\vdash$ | $\vdash \vdash$     | $\dashv$ | $\dashv$ |     | <b></b>  | 147<br>148 | <del> </del>                                     | $\vdash$ | <u> </u>     | $\vdash$   | Н        |          | $\vdash \dashv$ | $\dashv$       | $\vdash$    |
| <u></u>  | 48         | ₩  | ₩                 | ₩                 | ╀        | ${\mathbb H}$  | +   | ╁        | +          | +      | <b> </b> |              | 98<br>99    | Ͱ  | $\vdash$   | ⊢  | ⊢        | ╀        | Н        | $\dashv$            | +        | $\dashv$ |     |          | 149        | $\vdash$   | $\vdash$ | $\vdash$     | $\vdash$   | $\vdash$ |          | $\vdash$        | $\dashv$       | $\vdash$    |
| -        | 49<br>50   | 4  | ╁                 | <del> </del>      | 1        | +  | +   | +        | +          | +      | ł        |              | 100         | $\vdash$   | $\vdash$   | $\vdash$   | ╁        | ╁        | $\vdash$ | $\vdash \vdash$     | -+       | $\dashv$ |     | <u> </u> | 150        | $\vdash$   | $\vdash$ | -            | <del>                                     </del> | Н        | $\vdash$ | $\dashv$        | $\dashv$       | $\vdash$    |
| I        | 1 30       | ı ′°   | IV                | 1 70              | 1        | 1  | 1   | 1        | 1          | ı      | 10000    | ı            | 1,00        | ı  | 1  | ı  | 1        | 1        | . 1      | 1                   | ı        | I:       | (A) | ŀ        | 1 130      | ı  | 1        | •            | •  | , ,      |          |                 | 1              | i           |